CAPITALIZATION RATE STUDY FOR CENTRALLY ASSESSED PROPERTIES

FOR: JANUARY 1, 2012



UTAH STATE TAX COMMISSION

PROPERTY TAX DIVISION
NATURAL RESOURCES SECTION
210 NORTH 1950 WEST, THIRD FLOOR
SALT LAKE CITY, UTAH 84134

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UTAH STATE TAX COMMISSION PROPERTY TAX DIVISION SUMMARY OF EQUITY RATES AND CAPITAL STRUCTURE

3/7/2012 **2012**

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Industry	Page	Debt Rate	Debt/Equity	Equity Yield Rate	WACC
COAL MINING	3	8.13%	35% / 65%	13.53%	11.64%
PRECIOUS METALS	6	5.25%	10% / 90%	11.51%	10.89%
NON-PRECIOUS METALS	9	5.25%	10% / 90%	13.56%	12.73%
NON-METALS	12	8.13%	15% / 85%	11.05%	10.61%
OIL & GAS	15	8.13%	25% / 75%	12.50%	11.41%
SAND AND GRAVEL	18	8.13%	25% / 75%	10.08%	9.59%
URANIUM MINING	21	5.25%	15% / 85%	13.95%	12.65%



PROPERTY TAX DIVISION

KEY RATES AND FIGURES

3/7/2012 **2012**

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		C)R	P	OR	RA	ΙĒ	В	10	ND	S	
Aaa												. 3.93%
Aa												. 4.03%
Α												. 4.40%
Baa												. 5.25%
Ba1												. 7.02%
Ba2												. 8.13%
Ba3												. 8.13%
B1												. 8.17%
B2												. 9.81%
В3												. 9.90%
Caa1												12.72%
Caa2	<u>-</u>											12.72%
Caa3	}											13.90%
Са												17.92%
С												21.00%

		ľ	U	3L	IC	U	Ш	Ш	Y	B(N	D	Ō		
	Aaa													. N/A	
	Aa													4.00%	
	Α													4.33%	
	Baa													5.07%	
_															

		P5	铝	K	ΚE	ָ ע	<u>5 I</u>	U	UK	5	
Aaa											. N/A
Aa											. N/A
Α											5.63%
Baa											6.59%

MISCELLANEOUS RATES	5	
Risk-Free Rate		. 2.57%
Market Risk Premium		. 6.62%
Default Income Tax Rate		38.50%
ValueLine GDP Price Deflator Forecast		. 1.00%

	INI LATION	IACIONS	,
Year	4th Quarter GDP Implicit Price Deflator	Annual Percent Change	Conversion Factor
2001	91.232	N/A	1.249
2002	92.894	1.82%	1.227
2003	94.818	2.07%	1.202
2004	97.874	3.22%	1.164
2005	101.302	3.50%	1.125
2006	104.186	2.85%	1.094
2007	106.958	2.66%	1.065
2008	109.300	2.19%	1.043
2009	109.943	0.59%	1.036
2010	111.644	1.55%	1.021
2011	113.946	2.06%	1.000

INFLATION FACTORS

2012 - 2002 Average Change: 2.25%

Source:

St. Louis Federal Reserve as of February, 2012

Website:

http://research.stlouisfed.org/fred2/series/GDPDEF

MISCELLANEOUS INFORMATION

Resources:

The Value Line Investment Survey. January 2012 CD 2012 Ibbotson Risk Premia Over Time Report. Mergent Bond Record. January 2012 Vol. 79 No. 1 2012 Ibbotson Valuation Yearbook



PROPERTY TAX DIVISION

COAL MINING -- EQUITY RATE MODELS

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REC	10	١C	Ц	Α	ΓIC	N					
Equity Models											Equity Rate
CAPM: Rule 62 Compliant											13.82%
CAPM: Total NYSE											13.47%
CAPM: Supply Side											13.01%
CAPM: Deciles 1 & 2											12.58%
Division's Risk Premium											. 8.66%
DGM: Earnings & Dividend											12.62%
DGM: Plowback Ratio .											14.33%
Reconciled Equity Rate											13.53%
Reconciled Equity Rate			13.	.53	%		6	5.0	0%		8.79%
Debt Rate (Corporate Ba3)			8.	.13	%		3	5.0	0%		2.85%
Weighted Average Cos	Weighted Average Cost of Capital 11.64%								11.64%		
Reconciled Equity Rate			13.	53	%						
Tax-Adjusted (38.25%)	6) 21.91% 65.00%				8.79%						
Industry Debt Rate	8.13% 35.00%						2.85%				
Tax-Adjusted Weighted Average Cost of Capital								17.09%			

Company Name	Tax Rate	Relative Financial Strength	Beta
Alpha Natural Res.	25.81%	1.00 (B+)	1.90
Arch Coal	NMF	0.89 (B++)	1.65
CONSOL Energy	24.07%	0.89 (B++)	1.70
Peabody Energy	27.68%	0.89 (B++)	1.55
Selected	38.25%	0.92	1.70

CAPM: RULE 62 COMPLIANT								
Item	Rate							
Market Risk Premium	6.62%							
x Industry Beta	1.70							
Industry Risk Premium	11.25%							
Add: Risk-Free Rate	2.57%							
Indicated Rate	13.82%							

CAPM: FULL NYSE								
Item	Rate							
Market Risk Premium	6.41%							
x Industry Beta	1.70							
Industry Risk Premium	10.90%							
Add: Risk-Free Rate	2.57%							
Indicated Rate	13.47%							

CAPM: SUPPLY SIDE								
Item	Rate							
Market Risk Premium	6.14%							
x Industry Beta	1.70							
Industry Risk Premium	10.44%							
Add: Risk-Free Rate	2.57%							
Indicated Rate	13.01%							

CAPM: DECILES 1 & 2								
Item	Rate							
Market Risk Premium	5.89%							
x Industry Beta	1.70							
Industry Risk Premium	10.01%							
Add: Risk-Free Rate	2.57%							
Indicated Rate	12.58%							

DIVISION'S RISK PREMIUM				
Item	Rate			
Market Risk Premium	6.62%			
x Industry Financial Strength	0.92			
Industry Risk Premium	6.09%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	8.66%			



PROPERTY TAX DIVISION

COAL MINING -- DIVIDEND GROWTH MODELS

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Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Alpha Natural Res.	\$19.70	-	10.00%	-	10.00%	-
arch Coal	\$14.11	\$0.44	15.50%	8.00%	11.75%	14.87%
CONSOL Energy	\$36.15	\$0.52	15.00%	13.00%	14.00%	15.44%
Peabody Energy	\$32.50	\$0.34	5.50%	7.50%	6.50%	7.55%

Indicated Rate 12.62%

DIVIDEND GROWTH MODEL: PLOWBACK RATIO						
Company Name	Recent Stock Price	Next Year's Dividend	Return on Equity	Retention Rate	Market Growth Rate	D.G.M. Rate
Alpha Natural Res.	\$19.70	-	2.50%	82.00%	2.05%	-
Arch Coal	\$14.11	\$0.44	4.00%	80.00%	3.20%	6.32%
CONSOL Energy	\$36.15	\$0.52	19.50%	84.00%	16.38%	17.82%
Peabody Energy	\$32.50	\$0.34	20.00%	89.00%	17.80%	18.85%
Indicated Rate						14.33%

COMMENTS ABOUT THE COAL MINING INDUSTRY



PROPERTY TAX DIVISION

COAL MINING -- CAPITAL STRUCTURE

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CALCULATION OF CAPITAL STRUCTURE									
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Alpha Natural Res.	2,931.3	100.0	1.71%	1,575.6	-	-	19.70	120.5	2,373.9
Arch Coal	3,841.3	400.0	5.21%	4,700.9	-	-	14.11	164.1	2,315.5
CONSOL Energy	3,178.7	266.0	4.18%	3,252.9	-	-	36.15	226.2	8,177.1
Peabody Energy	2,458.6	200.0	4.07%	2,459.7	-	-	32.50	270.6	8,794.5
Total				11,989.1		-			21,661.0

Company Name	Percent Debt & Preferred Equity	Percent Common Equity
Alpha Natural Res.	39.89%	60.11%
Arch Coal	67.00%	33.00%
CONSOL Energy	28.46%	71.54%
Peabody Energy	21.86%	78.14%
Maga	20.20%	CO 709/
Mean	39.30%	60.70%
Weighted Mean	35.63%	64.37%

CAPITAL STRUCTURE AT MARKET VALUE

* Market Value of Debt: 8.13%	(Corporate Ba3)

REMARKS

^{**} Market Value of Pref. Equity: 6.59% (Baa)



New Gold Inc

Newmont Mining

Richmont Mines

Selected

UTAH STATE TAX COMMISSION

PROPERTY TAX DIVISION

PRECIOUS METALS -- EQUITY RATE MODELS

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REC	RECONCILIATION										
Equity Models											Equity Rate
CAPM: Rule 62 Compliant											11.51%
CAPM: Total NYSE											11.22%
CAPM: Supply Side											10.86%
CAPM: Deciles 1 & 2 .											10.52%
Division's Risk Premium											. 8.73%
DGM: Earnings & Dividend											17.89%
DGM: Plowback Ratio .											. 0.00%
Reconciled Equity Rate											11.51%
Reconciled Equity Rate			11.	.51	%		9(0.0	0%		10.36%
Debt Rate (Corporate Baa)			5	.25	%		10	0.0	0%		0.53%
Weighted Average Cost of Capital 10.89%											
Reconciled Equity Rate			11.	.51	%						
Tax-Adjusted (38.25%)			18	.64	%		90	0.0	0%		10.36%
Industry Debt Rate			5	.25	%		10	0.0	0%		0.53%
Tax-Adjusted Weighted	Tax-Adjusted Weighted Average Cost of Capital 17.31%					17.31%					

CAPM: RULE 62 COMPLIANT				
Item	Rate			
Market Risk Premium	6.62%			
x Industry Beta	1.35			
Industry Risk Premium	8.94%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	11.51%			
CADM: ELLL NVS	E			

CAPM: FULL NYSE					
Item	Rate				
Market Risk Premium	6.41%				
x Industry Beta	1.35				
Industry Risk Premium	8.65%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	11.22%				

CAPM: SUPPLY SIDE				
Item	Rate			
Market Risk Premium	6.14%			
x Industry Beta	1.35			
Industry Risk Premium	8.29%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	10.86%			

CAPM: DECILES 1 & 2					
Item	Rate				
Market Risk Premium	5.89%				
x Industry Beta	1.35				
Industry Risk Premium	7.95%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	10.52%				

DIVISION'S RISK PREMIUM				
ltem	Rate			
Market Risk Premium	6.62%			
x Industry Financial Strength	0.93			
Industry Risk Premium	6.16%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	8.73%			

Company Name	Tax Rate	Strength	Beta
Agnico-Eagle Mines	38.25%	1.00 (B+)	1.00
Allied Nevada Gold Corp	38.25%	1.00 (B+)	1.45
Aurizon Mines Ltd	38.25%		1.10
Barrick Gold	38.25%	0.78 (A)	0.90
Brigus Gold Corp	38.25%		1.30
Coeur d'Alene Mines	38.25%	1.00 (B+)	1.60
Goldcorp Inc.	38.25%	0.89 (B++)	1.00
Hecla Mining	38.25%	1.00 (B+)	1.65
Kinross Gold	38.25%	0.89 (B++)	1.00
Kirkland Lake Gold Inc	38.25%		1.30

38.25%

38.25%

38.25%

38.25%

GUIDELINE COMPANY INFORMATION SUMMARY

Relative Financial

0.89 (B++)

0.93

1.55

0.80

0.90

1.35



PROPERTY TAX DIVISION

PRECIOUS METALS -- DIVIDEND GROWTH MODELS

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Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Agnico-Eagle Mines	\$35.77	\$0.70	35.50%	22.50%	29.00%	30.96%
Allied Nevada Gold Corp	\$30.55	-	-	-	-	-
Aurizon Mines Ltd	\$4.78	-	8.19%	-	8.19%	-
Barrick Gold	\$45.18	\$0.60	1.50%	7.00%	4.25%	5.58%
Brigus Gold Corp	\$0.94	-	-	-	-	_
Coeur d'Alene Mines	\$24.03	-	-	-	-	-
Goldcorp Inc.	\$43.53	\$0.54	26.00%	29.50%	27.75%	28.99%
Hecla Mining	\$5.23	-	8.00%	-	8.00%	-
Kinross Gold	\$11.33	\$0.12	21.50%	7.50%	14.50%	15.56%
Kirkland Lake Gold Inc	\$14.73	-	-	-	-	-
New Gold Inc	\$9.92	-	5.00%	-	5.00%	-
Newmont Mining	\$60.36	\$1.58	-3.50%	15.00%	5.75%	8.37%
Richmont Mines	\$10.75	-	-	-	-	-

Company Name	Recent Stock Price	Next Year's Dividend	Return on Equity	Retention Rate	Market Growth Rate	D.G.M. Rate
Agnico-Eagle Mines	\$35.77	\$0.70	-	-	-	-
Allied Nevada Gold Corp	\$30.55	-	-	-	_	-
Aurizon Mines Ltd	\$4.78	-	-	-	_	-
Barrick Gold	\$45.18	\$0.60	-	-	-	-
Brigus Gold Corp	\$0.94	-	-	-	-	-
Coeur d'Alene Mines	\$24.03	-	-	-	-	-
Goldcorp Inc.	\$43.53	\$0.54	-	-	-	-
Hecla Mining	\$5.23	-	-	-	-	-
Kinross Gold	\$11.33	\$0.12	-	-	- 1	-
Kirkland Lake Gold Inc	\$14.73	-	-	-	- 1	-
New Gold Inc	\$9.92	-	-	-	-	-
Newmont Mining	\$60.36	\$1.58	-	-	_	-
Richmont Mines	\$10.75	-	-	-	- 1	-

COMMENTS ABOUT THE PRECIOUS METALS INDUSTRY



PROPERTY TAX DIVISION

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PRECIOUS METALS -- CAPITAL STRUCTURE

	CALCU	LATION	OF CA	PITAL ST	RUCT	URE			
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Agnico-Eagle Mines	650.0	59.0	4.54%	955.7	-	-	35.77	168.7	6,034.4
Allied Nevada Gold Corp	20.1	-	-	20.1	-	-	30.55	89.0	2,718.9
Aurizon Mines Ltd	-	-	-	-	-	-	4.78	-	-
Barrick Gold	13,229.0	565.0	2.14%	11,637.0	-	-	45.18	998.5	45,112.2
Brigus Gold Corp	-	-	-	-	-	-	0.94	-	-
Coeur d'Alene Mines	124.5	-	-	124.5	-	-	24.03	89.3	2,145.9
Goldcorp Inc.	715.0	52.0	3.64%	892.8	-	-	43.53	798.4	34,754.4
Hecla Mining	4.1	-	-	4.1	0.6	9.1	5.23	258.5	1,352.0
Kinross Gold	415.0	29.0	3.49%	503.7	-	-	11.33	1,133.3	12,840.3
Kirkland Lake Gold Inc	-	-	-	-	-	-	14.73	-	-
New Gold Inc	-	-	-	-	_	-	9.92	-	-
Newmont Mining	3,771.0	165.0	2.19%	3,365.7	_	-	60.36	492.7	29,739.4
Richmont Mines	-	-	-	-	-	-	10.75	-	-
Total				17,503.6		9.1			134,697.5

CAPITAL STRUCTU	RE AT MARKET	VALUE
Company Name	Percent Debt & Preferred Equity	Percent Common Equity
Agnico-Eagle Mines	13.67%	86.33%
Allied Nevada Gold Corp	0.73%	99.27%
Aurizon Mines Ltd	-	-
Barrick Gold	20.51%	79.49%
Brigus Gold Corp	-	-
Coeur d'Alene Mines	5.48%	94.52%
Goldcorp Inc.	2.50%	97.50%
Hecla Mining	0.97%	99.03%
Kinross Gold	3.77%	96.23%
Kirkland Lake Gold Inc	-	-
New Gold Inc	-	-
Newmont Mining	10.17%	89.83%
Richmont Mines	-	-
Mean	7.23%	92.77%
Weighted Mean	11.51%	88.49%

^{*} Market Value of Debt: 5.25% (Corporate Baa)

REMARKS

^{**} Market Value of Pref. Equity: 6.59% (Baa)



PROPERTY TAX DIVISION

NON-PRECIOUS METALS -- EQUITY RATE MODELS

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REC	10	١C	П	Α	ΓIC	N					
Equity Models											Equity Rate
CAPM: Rule 62 Compliant											13.56%
CAPM: Total NYSE											13.21%
CAPM: Supply Side											12.76%
CAPM: Deciles 1 & 2 .											12.35%
Division's Risk Premium											. 7.60%
DGM: Earnings & Dividend											17.82%
DGM: Plowback Ratio .											. 0.00%
Reconciled Equity Rate											13.56%
Reconciled Equity Rate			13.	56	%		9(0.0	0%		12.20%
Debt Rate (Corporate Baa)			5.	25	%		10	0.0	0%		0.53%
Weighted Average Cost	of	C	api	tal							12.73%
Reconciled Equity Rate			13.	56	%						
Tax-Adjusted (38.25%)	21.96% 90.00%			12.20%							
Industry Debt Rate			5.	25	%		10	0.0	0%		0.53%
Tax-Adjusted Weighted	A۱	/er	ag	e C	os	t o	f C	api	ital		20.29%

GUIDELINE COMPAN	Y INFORM	MATION SUM	MARY
Company Name	Tax Rate	Relative Financial Strength	Beta
BHP Billiton Ltd. ADR	38.25%	0.78 (A)	1.40
Freep't-McMoRan C&G	38.25%	0.67 (A+)	1.65
Inmet Mining Corp.	38.25%		1.60
Lundin Mining Corp	38.25%		1.95
Rio Tinto plc	38.25%	0.78 (A)	1.60
Southern Copper	38.25%	0.67 (A+)	1.55
Teck Resources Ltd. 'B'	38.25%	0.89 (B++)	1.90
Thompson Creek Metals Company	38.25%		1.60
Selected	38.25%	0.76	1.66

CAPM: RULE 62 COMPLIANT			
Item	Rate		
Market Risk Premium	6.62%		
x Industry Beta	1.66		
Industry Risk Premium	10.99%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	13.56%		

CAPM: FULL NYSE				
Item	Rate			
Market Risk Premium	6.41%			
x Industry Beta	1.66			
Industry Risk Premium	10.64%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	13.21%			

CAPM: SUPPLY SIDE				
Item	Rate			
Market Risk Premium	6.14%			
x Industry Beta	1.66			
Industry Risk Premium	10.19%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	12.76%			

CAPM: DECILES 1 & 2				
Item	Rate			
Market Risk Premium	5.89%			
x Industry Beta	1.66			
Industry Risk Premium	9.78%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	12.35%			

DIVISION'S RISK PREMIUM				
Item	Rate			
Market Risk Premium	6.62%			
x Industry Financial Strength	0.76			
Industry Risk Premium	5.03%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	7.60%			



PROPERTY TAX DIVISION

NON-PRECIOUS METALS -- DIVIDEND GROWTH MODELS

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DIVIDEND GROWTH MODEL: EARNINGS AND DIVIDEND GROWTH						
Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate	
\$70.30	\$2.20	17.00%	13.50%	15.25%	18.38%	
\$36.54	\$1.08	12.50%	19.50%	16.00%	18.96%	
\$65.40	-	-	-	-	-	
\$3.78	-	-	-	_	-	
\$48.21	\$1.34	18.50%	11.50%	15.00%	17.78%	
\$29.94	\$1.86	19.00%	8.00%	13.50%	19.71%	
\$35.21	\$0.80	7.50%	16.50%	12.00%	14.27%	
\$6.86	-	-	-	-	-	
	Recent Stock Price \$70.30 \$36.54 \$65.40 \$3.78 \$48.21 \$29.94 \$35.21	Recent Stock Price Next Year's Dividend \$70.30 \$2.20 \$36.54 \$1.08 \$65.40 - \$3.78 - \$48.21 \$1.34 \$29.94 \$1.86 \$35.21 \$0.80	Recent Stock PriceNext Year's DividendProjected Earnings Growth\$70.30\$2.2017.00%\$36.54\$1.0812.50%\$65.40\$3.78\$48.21\$1.3418.50%\$29.94\$1.8619.00%\$35.21\$0.807.50%	Recent Stock Price Next Year's Dividend Projected Earnings Growth Projected Dividend Growth \$70.30 \$2.20 17.00% 13.50% \$36.54 \$1.08 12.50% 19.50% \$65.40 - - - \$3.78 - - - \$48.21 \$1.34 18.50% 11.50% \$29.94 \$1.86 19.00% 8.00% \$35.21 \$0.80 7.50% 16.50%	Recent Stock PriceNext Year's Dividend DividendProjected Earnings GrowthProjected Dividend GrowthMarket Growth Rate\$70.30\$2.2017.00%13.50%15.25%\$36.54\$1.0812.50%19.50%16.00%\$65.40\$3.78\$48.21\$1.3418.50%11.50%15.00%\$29.94\$1.8619.00%8.00%13.50%\$35.21\$0.807.50%16.50%12.00%	

Indicated Rate 17.82%

Company Name	Recent Stock Price	Next Year's Dividend	Return on Equity	Retention Rate	Market Growth Rate	D.G.M. Rate
BHP Billiton Ltd. ADR	\$70.30	\$2.20	-	-	-	-
Freep't-McMoRan C&G	\$36.54	\$1.08	-	-	-	-
Inmet Mining Corp.	\$65.40	-	-	-	-	-
Lundin Mining Corp	\$3.78	-	-	-	-	-
Rio Tinto plc	\$48.21	\$1.34	-	-	-	-
Southern Copper	\$29.94	\$1.86	-	-	-	-
Teck Resources Ltd. 'B'	\$35.21	\$0.80	-	-	-	-
Thompson Creek Metals Company	\$6.86	-	-	-	-	-

COMMENTS ABOUT THE NON-PRECIOUS METALS INDUSTRY



PROPERTY TAX DIVISION

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NON-PRECIOUS METALS -- CAPITAL STRUCTURE

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	CALCU	LATION	OF CAP	PITAL ST	RUCT	JRE			
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
BHP Billiton Ltd. ADR	12,388.0	900.0	3.63%	15,456.3	-	-	70.30	2,675.0	188,052.5
Freep't-McMoRan C&G	3,531.0	220.0	3.12%	3,956.6	-	-	36.54	945.0	34,530.3
Inmet Mining Corp.	-	-	-	-	-	-	65.40	-	-
Lundin Mining Corp	-	-	-	-	-	-	3.78	-	-
Rio Tinto plc	17,426.0	850.0	2.44%	16,628.7	-	-	48.21	1,962.1	94,592.8
Southern Copper	2,740.6	195.0	3.56%	3,368.9	-	-	29.94	850.0	25,449.0
Teck Resources Ltd. 'B'	6,879.0	380.0	2.76%	7,110.7	-	-	35.21	590.6	20,795.0
Thompson Creek Metals Company	-	-	-	-	-	-	6.86	-	-
Total				46,521.2		-		;	363,419.6

CAPITAL STRUCTUR	E AT MARKET	VALUE
Company Name	Percent Debt & Preferred Equity	Percent Common Equity
BHP Billiton Ltd. ADR	7.59%	92.41%
Freep't-McMoRan C&G	10.28%	89.72%
Inmet Mining Corp.	-	-
Lundin Mining Corp	-	-
Rio Tinto plc	14.95%	85.05%
Southern Copper	11.69%	88.31%
Teck Resources Ltd. 'B'	25.48%	74.52%
Thompson Creek Metals Company	-	-
Mean	14.00%	86.00%
Weighted Mean	11.35%	88.65%

R	3	M	A	R	K§	3

^{*} Market Value of Debt: 5.25% (Corporate Baa)

^{**} Market Value of Pref. Equity: 6.59% (Baa)



UTAH STATE TAX COMMISSION PROPERTY TAX DIVISION

NON-METALS -- EQUITY RATE MODELS

3/7/2012 **2012**

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RECONCILIATIO	N				
Equity Models		Equity Rate			
CAPM: Rule 62 Compliant		10.45%			
CAPM: Total NYSE		10.20%			
CAPM: Supply Side		. 9.88%			
CAPM: Deciles 1 & 2		. 9.58%			
Division's Risk Premium		. 9.19%			
DGM: Earnings & Dividend		16.40%			
DGM: Plowback Ratio		13.21%			
Reconciled Equity Rate		11.05%			
Reconciled Equity Rate 11.05%	85.00%	9.39%			
Debt Rate (Corporate Ba3) 8.13%	15.00%	1.22%			
Weighted Average Cost of Capital 10.61%					
Reconciled Equity Rate 11.05%					
Tax-Adjusted (38.25%) 17.89%	85.00%	9.39%			
Industry Debt Rate 8.13%	8.13% 15.00%				
Tax-Adjusted Weighted Average Cost of Capital 16.43%					

GUIDELINE COMPA	NY INFORM	IATION SUM	MARY
Company Name	Tax Rate	Relative Financial Strength	Beta
Compass Minerals	25.10%		1.00
Eagle Materials	NMF	1.00 (B+)	1.20
Martin Marietta	22.88%	0.89 (B++)	1.20
Potash	26.20%		1.40
Texas Inds.	NMF	1.11 (B)	1.50
U S Lime & Minerals	28.01%	0.89 (B++)	0.90
Vulcan Materials	NMF	1.11 (B)	1.10
Selected	38.25%	1.00	1.19

CAPM: RULE 62 COMPLIANT				
Item	Rate			
Market Risk Premium	6.62%			
x Industry Beta	1.19			
Industry Risk Premium	7.88%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	10.45%			

CAPM: FULL NYSE					
Item	Rate				
Market Risk Premium	6.41%				
x Industry Beta	1.19				
Industry Risk Premium	7.63%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	10.20%				

CAPM: SUPPLY SIDE				
Item	Rate			
Market Risk Premium	6.14%			
x Industry Beta	1.19			
Industry Risk Premium	7.31%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	9.88%			

CAPM: DECILES 1 & 2				
Item	Rate			
Market Risk Premium	5.89%			
x Industry Beta	1.19			
Industry Risk Premium	7.01%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	9.58%			

DIVISION'S RISK PREMIUM			
Item	Rate		
Market Risk Premium	6.62%		
x Industry Financial Strength	1.00		
Industry Risk Premium	6.62%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	9.19%		



PROPERTY TAX DIVISION

NON-METALS -- DIVIDEND GROWTH MODELS

3/7/2012 **2012**

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Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Compass Minerals	\$66.46	\$1.80	-	-	-	-
Eagle Materials	\$25.50	\$0.44	17.50%	3.00%	10.25%	11.98%
Martin Marietta	\$75.00	\$1.60	14.00%	4.00%	9.00%	11.13%
Potash	\$42.34	-	-	-	-	
Texas Inds.	\$30.92	-	-	-	-	
U S Lime & Minerals	\$59.50	-	-	-	-	
Vulcan Materials	\$39.14	\$0.04	26.00%	-	26.00%	26.10%

32.23% 8.77% 8.13%	29.52% 7.04%	67.10%	44.00%		Stock Price	Company Name
		C7 0E0/	44.00%	\$1.80	\$66.46	Compass Minerals
8.13%	0.000/	67.05%	10.50%	\$0.44	\$25.50	Eagle Materials
	6.00%	66.67%	9.00%	\$1.60	\$75.00	Martin Marietta
	23.09%	92.34%	25.00%	-	\$42.34	Potash
	-	-	5.00%	-	\$30.92	Texas Inds.
	-	-	14.10%	-	\$59.50	U S Lime & Minerals
3.72%	3.62%	72.41%	5.00%	\$0.04	\$39.14	Vulcan Materials

COMMENTS ABOUT THE NON-METALS INDUSTRY



PROPERTY TAX DIVISION

NON-METALS -- CAPITAL STRUCTURE

3/7/2012 **2012**

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	CALCU	LATION	OF CAP	PITAL ST	RUCT	JRE			
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Compass Minerals	480.5	22.0	2.29%	313.2	-	-	66.46	38.0	2,525.5
Eagle Materials	285.0	16.4	2.88%	218.6	-	-	25.50	44.5	1,134.8
Martin Marietta	1,038.3	50.8	2.45%	708.8	-	-	75.00	45.5	3,412.5
Potash	3,704.0	217.0	2.93%	2,879.4	-	-	42.34	853.0	36,116.0
Texas Inds.	652.4	63.0	4.83%	750.0	-	-	30.92	27.9	862.7
U S Lime & Minerals	27.9	-	-	27.9	-	-	59.50	6.4	380.8
Vulcan Materials	2,816.2	145.0	2.57%	1,993.3	-	-	39.14	129.1	5,053.0
Total				6,891.2		-			49,485.3

Company Name	Percent Debt & Preferred Equity	Percent Common Equity
Compass Minerals	11.03%	88.97%
agle Materials	16.15%	83.85%
Nartin Marietta	17.20%	82.80%
otash	7.38%	92.62%
exas Inds.	46.51%	53.49%
J S Lime & Minerals	6.83%	93.17%
/ulcan Materials	28.29%	71.71%
Mean Weighted Mean	19.06%	80.94%

* Market Value of Debt: 8.13% (Corporate Ba3)

REMARKS

** Market Value of Pref. Equity: 6.59% (Baa)



PROPERTY TAX DIVISION

OIL & GAS -- EQUITY RATE MODELS

3/7/2012 **2012**

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REC	10	NC	IL	Α	ΓIC	N					
Equity Models											Equity Rate
CAPM: Rule 62 Compliant											12.50%
CAPM: Total NYSE											12.19%
CAPM: Supply Side											11.78%
CAPM: Deciles 1 & 2 .											11.41%
Division's Risk Premium											. 9.45%
DGM: Earnings & Dividend											17.06%
DGM: Plowback Ratio .											12.01%
Reconciled Equity Rate)										12.50%
Reconciled Equity Rate			12.	.50	%		7	5.0	0%		9.38%
Debt Rate (Corporate Ba3)			8.	13	%		2	5.0	0%		2.03%
Weighted Average Cos	t o	f C	api	tal							11.41%
Reconciled Equity Rate			12.	.50	%						
Tax-Adjusted (38.25%)			20.	24	%		7	5.0	0%		9.38%
Industry Debt Rate			8.	.13	%		2	5.0	0%		2.03%
Tax-Adjusted Weighted Average Cost of Capital					17.21%						

CAPM: RULE 62 COMPLIANT				
Item	Rate			
Market Risk Premium	6.62%			
x Industry Beta	1.50			
Industry Risk Premium	9.93%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	12.50%			

CAPM: FULL NYSE			
Item	Rate		
Market Risk Premium	6.41%		
x Industry Beta	1.50		
Industry Risk Premium	9.62%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	12.19%		

CAPM: SUPPLY SIDE			
Item	Rate		
Market Risk Premium	6.14%		
x Industry Beta	1.50		
Industry Risk Premium	9.21%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	11.78%		

CAPM: DECILES 1 & 2				
Item	Rate			
Market Risk Premium	5.89%			
x Industry Beta	1.50			
Industry Risk Premium	8.84%			
Add: Risk-Free Rate	2.57%			
Indicated Rate	11.41%			

DIVISION'S RISK PREMIUM			
Item	Rate		
Market Risk Premium	6.62%		
x Industry Financial Strength	1.04		
Industry Risk Premium	6.88%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	9.45%		

GUIDELINE COMPA	NY INFORM	ATION SUM	MARY
		Relative	
Company Name	Tax Rate	Financial Strength	Beta

		Relative Financial	
Company Name	Tax Rate	Strength	Beta
Abraxas Petrol	NMF	1.11 (B)	1.70
Berry Petroleum `A'	39.54%	1.00 (B+)	1.75
Bill Barrett Corp	37.33%	1.00 (B+)	1.35
Double Eagle Petroleum Co.	38.65%	1.22 (C++)	1.50
EnCana Corp.	54.60%	0.89 (B++)	1.21
Forest Oil	34.65%	1.00 (B+)	1.18
Gasco Energy Inc	NMF	1.22 (C++)	1.75
GMX Resources Inc	NMF	1.22 (C++)	1.75
Isramco Inc.	NMF	1.22 (C++)	0.80
Kodiak Oil & Gas Corp	NMF	1.00 (B+)	1.60
Legacy Reserves	NMF	1.00 (B+)	1.15
Pioneer Natural Res.	34.54%	1.00 (B+)	1.45
QEP Resources	36.87%	0.89 (B++)	
Quicksilver Res.	36.14%	1.11 (B)	1.65
Resolute Energy Corp	27.86%	0.78 (A)	0.60
Ultra Petroleum	35.87%	0.89 (B++)	1.10
Warren Resources Inc	NMF	1.11 (B)	2.05
Whiting Petroleum Corp	37.82%	1.00 (B+)	1.70
Selected	38.25%	1.04	1.50



Indicated Rate

UTAH STATE TAX COMMISSION

PROPERTY TAX DIVISION

OIL & GAS -- DIVIDEND GROWTH MODELS

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17.06%

DIVIDEND	GROWTH MC	DEL: EARN	INGS AND	DIVIDEND (GROWTH	
Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Abraxas Petrol	\$3.35	-	-	-	-	-
Berry Petroleum `A'	\$41.52	\$0.32	15.00%	12.00%	13.50%	14.27%
Bill Barrett Corp	\$34.27	-	10.00%	-	10.00%	-
Double Eagle Petroleum Co.	\$6.97	-	-	-	-	-
EnCana Corp.	\$18.35	\$0.80	NMF	NMF	-	-
Forest Oil	\$13.26	-	2.50%	-	2.50%	-
Gasco Energy Inc	\$0.21	-	-	-	-	-
GMX Resources Inc	\$1.23	-	10.00%	-	10.00%	-
Isramco Inc.	\$91.00	-	-	-	-	-
Kodiak Oil & Gas Corp	\$9.66	-	20.00%	-	20.00%	-
Legacy Reserves	\$28.36	-	-	-	-	-
Pioneer Natural Res.	\$88.97	\$0.08	31.00%	8.50%	19.75%	19.84%
QEP Resources	\$29.23	\$0.12	-	-	-	-
Quicksilver Res.	\$6.84	-	11.00%	-	11.00%	-
Resolute Energy Corp	\$10.75	-	24.55%	-	24.55%	-
Ultra Petroleum	\$30.21	-	18.50%	-	18.50%	-
Warren Resources Inc	\$3.11	-	10.00%	-	10.00%	-
Whiting Petroleum Corp	\$46.33	-	16.54%	-	16.54%	-

Company Name	Recent Stock Price	Next Year's Dividend	Return on Equity	Retention Rate	Market Growth Rate	D.G.M. Rate
Abraxas Petrol	\$3.35	-	-	-	-	
Berry Petroleum `A'	\$41.52	\$0.32	14.50%	88.57%	12.84%	13.61%
Bill Barrett Corp	\$34.27	-	-	-	-	
Double Eagle Petroleum Co.	\$6.97	-	-	-	-	
EnCana Corp.	\$18.35	\$0.80	10.00%	67.72%	6.77%	11.13%
Forest Oil	\$13.26	-	15.50%	-	-	
Gasco Energy Inc	\$0.21	-	-	-	-	
GMX Resources Inc	\$1.23	-	-	-	-	
Isramco Inc.	\$91.00	-	-	-	-	
Kodiak Oil & Gas Corp	\$9.66	-	-	-	-	
Legacy Reserves	\$28.36	-	-	-	-	
Pioneer Natural Res.	\$88.97	\$0.08	12.00%	96.67%	11.60%	11.69%
QEP Resources	\$29.23	\$0.12	12.00%	93.33%	11.20%	11.61%
Quicksilver Res.	\$6.84	-	15.50%	-	-	
Resolute Energy Corp	\$10.75	-	-	-	-	
Ultra Petroleum	\$30.21	-	22.00%	-	-	
Warren Resources Inc	\$3.11	-	-	-	-	
Whiting Petroleum Corp	\$46.33	-	-	_	-	

COMMENTS ABOUT THE OIL & GAS INDUSTRY



PROPERTY TAX DIVISION

OIL & GAS -- CAPITAL STRUCTURE

3/7/2012 **2012**

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CALCULATION OF CAPITAL STRUCTURE									
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Abraxas Petrol	94.9	-	-	94.9	-	-	3.35	76.0	254.6
Berry Petroleum `A'	1,335.3	75.0	2.81%	1,006.4	-	-	41.52	53.2	2,208.9
Bill Barrett Corp	553.2	-	-	553.2	-	-	34.27	45.9	1,573.0
Double Eagle Petroleum Co.	32.0	-	-	32.0	3.7	56.1	6.97	11.2	78.1
EnCana Corp.	6,598.0	390.0	2.96%	5,162.9	-	-	18.35	736.3	13,511.1
Forest Oil	1,586.6	130.0	4.10%	1,596.5	-	-	13.26	113.6	1,506.3
Gasco Energy Inc	21.7	-	-	21.7	-	-	0.21	121.2	25.5
GMX Resources Inc	341.3	-	-	341.3	7.3	110.8	1.23	28.6	35.2
Isramco Inc.	62.6	-	-	62.6	-	-	91.00	2.7	245.7
Kodiak Oil & Gas Corp	114.8	-	-	114.8	-	-	9.66	178.2	1,721.4
Legacy Reserves	405.0	-	-	405.0	-	-	28.36	43.5	1,233.7
Pioneer Natural Res.	2,571.0	180.0	3.50%	2,286.5	-	-	88.97	115.3	10,258.2
QEP Resources	1,582.7	90.0	2.84%	1,203.6	-	-	29.23	175.9	5,141.6
Quicksilver Res.	1,931.0	130.0	3.37%	1,666.5	-	-	6.84	170.5	1,166.2
Resolute Energy Corp	66.5	-	-	66.5	-	-	10.75	54.7	588.0
Ultra Petroleum	1,560.0	60.0	1.92%	905.0	-	-	30.21	152.6	4,610.0
Warren Resources Inc	71.2	-	-	71.2	-	-	3.11	70.7	219.9
Whiting Petroleum Corp	1,060.0	-	-	1,060.0	1.1	16.7	46.33	117.1	5,425.2
Total				16,650.6		183.6			49,802.6

CAPITAL STRUCTURE AT MARKET VALUE					
Company Name	Percent Debt & Preferred Equity	Percent Common Equity			
Abraxas Petrol	27.15%	72.85%			
Berry Petroleum `A'	31.30%	68.70%			
Bill Barrett Corp	26.02%	73.98%			
Double Eagle Petroleum Co.	53.01%	46.99%			
EnCana Corp.	27.65%	72.35%			
Forest Oil	51.45%	48.55%			
Gasco Energy Inc	45.97%	54.03%			
GMX Resources Inc	92.78%	7.22%			
Isramco Inc.	20.30%	79.70%			
Kodiak Oil & Gas Corp	6.25%	93.75%			
Legacy Reserves	24.71%	75.29%			
Pioneer Natural Res.	18.23%	81.77%			
QEP Resources	18.97%	81.03%			
Quicksilver Res.	58.83%	41.17%			
Resolute Energy Corp	10.16%	89.84%			
Ultra Petroleum	16.41%	83.59%			
Warren Resources Inc	24.46%	75.54%			
Whiting Petroleum Corp	16.56%	83.44%			
Mean	31.68%	68.32%			
Weighted Mean	25.26%	74.74%			

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	* Market Value of Debt: 8.13% (Corporate Ba3)
$\left(\right)$	** Market Value of Pref. Equity: 6.59% (Baa)

REMARKS



PROPERTY TAX DIVISION

3/7/2012 **2012**

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SAND AND GRAVEL -- EQUITY RATE MODELS

RECONCILIATION												
Equity Models											Equi Rate	-
CAPM: Rule 62 Compliant											10.7	1%
CAPM: Total NYSE											10.4	5%
CAPM: Supply Side											10.1	2%
CAPM: Deciles 1 & 2 .											. 9.8	1%
Division's Risk Premium											. 9.3	2%
DGM: Earnings & Dividend											. 8.8	5%
DGM: Plowback Ratio .											. 0.0	0%
Reconciled Equity Rate)										10.0	8%
Reconciled Equity Rate			10.	.08	%		7:	5.0	0%		7.5	6%
Debt Rate (Corporate Ba3)			8.	13	%		2	5.0	0%		2.0	3%
Weighted Average Cost of Capital 9.59%						9%						
Reconciled Equity Rate			10.	.08	%							
Tax-Adjusted (38.25%)		16.32%				75.00%			7.5	6%		
Industry Debt Rate		8.13%			%	25.00%				2.0	3%	
Tax-Adjusted Weighted Average Cost of Capital					14.2	7%						

		•	
GUIDELINE COMPA	NY INFORM	IATION SUM	MARY
Company Name	Tax Rate	Relative Financial Strength	Beta
Eagle Materials	NMF	1.00 (B+)	1.20
Granite Construction	NMF	1.00 (B+)	1.15
Martin Marietta	22.88%	0.89 (B++)	1.20
Texas Inds.	NMF	1.11 (B)	1.50
Vulcan Materials	NMF	1.11 (B)	1.10
Selected	38.25%	1.02	1.23

CAPM: RULE 62 COMPLIANT					
Item	Rate				
Market Risk Premium	6.62%				
x Industry Beta	1.23				
Industry Risk Premium	8.14%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	10.71%				

CAPM: FULL NYSE					
Item	Rate				
Market Risk Premium	6.41%				
x Industry Beta	1.23				
Industry Risk Premium	7.88%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	10.45%				

CAPM: SUPPLY SIDE					
Item	Rate				
Market Risk Premium	6.14%				
x Industry Beta	1.23				
Industry Risk Premium	7.55%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	10.12%				

CAPM: DECILES 1	1 & 2
Item	Rate
Market Risk Premium	5.89%
x Industry Beta	1.23
Industry Risk Premium	7.24%
Add: Risk-Free Rate	2.57%
Indicated Rate	9.81%

DIVISION'S RISK PREMIUM			
Item	Rate		
Market Risk Premium	6.62%		
x Industry Financial Strength	1.02		
Industry Risk Premium	6.75%		
Add: Risk-Free Rate	2.57%		
Indicated Rate	9.32%		



PROPERTY TAX DIVISION

SAND AND GRAVEL -- DIVIDEND GROWTH MODELS

3/7/2012 **2012**

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Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Eagle Materials	\$25.50	\$0.44	17.50%	3.00%	10.25%	11.98%
Granite Construction	\$23.80	\$0.52	13.00%	0.50%	6.75%	8.93%
Martin Marietta	\$75.00	\$1.60	14.00%	4.00%	9.00%	11.13%
Texas Inds.	\$30.92	-	-	-	-	
Vulcan Materials	\$39.14	\$0.04	26.00%	-19.50%	3.25%	3.35%

Indicated Rate 8.85%

Eagle Materials \$25.50 \$0.44 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </th
Martin Marietta \$75.00 \$1.60 Texas Inds. \$30.92
Texas Inds. \$30.92
Vulcan Materials \$39.14 \$0.04

COMMENTS ABOUT THE SAND AND GRAVEL INDUSTRY



UTAH STATE TAX COMMISSION

PROPERTY TAX DIVISION

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SAND AND GRAVEL -- CAPITAL STRUCTURE

	CALCU	LATION	OF CAR	PITAL ST	RUCT	JRE			
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Eagle Materials	-	-	-	-	-	-	25.50	44.5	1,134.8
Granite Construction	-	-	-	-	-	-	23.80	38.7	921.1
Martin Marietta	-	-	-	-	-	-	75.00	45.5	3,412.5
Texas Inds.	-	-	-	-	-	-	30.92	27.9	862.7
Vulcan Materials	-	-	-	-	-		39.14	129.1	5,053.0
Total				-		-			11,384.1

CAPITAL STRUCTU	JRE AT MARKET	VALUE
Company Name	Percent Debt & Preferred Equity	Percent Common Equity
Eagle Materials	-	100.00%
Granite Construction	-	100.00%
Martin Marietta	-	100.00%
Texas Inds.	-	100.00%
Vulcan Materials	-	100.00%
Mean	-	100.00%
Weighted Mean	-	100.00%



PROPERTY TAX DIVISION

URANIUM MINING -- EQUITY RATE MODELS

3/7/2012 **2012**

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RECONCILIATION				
Equity Models		Equity Rate		
CAPM: Rule 62 Compliant		13.82%		
CAPM: Total NYSE		13.47%		
CAPM: Supply Side		13.01%		
CAPM: Deciles 1 & 2 .		12.58%		
Division's Risk Premium		8.46%		
DGM: Earnings & Dividend		16.46%		
DGM: Plowback Ratio .		19.99%		
Reconciled Equity Rate		13.95%		
Reconciled Equity Rate	11.86%			
Debt Rate (Corporate Baa)	0.79%			
Weighted Average Cost	12.65%			
Reconciled Equity Rate	13.95%			
Tax-Adjusted (38.25%)) 22.59% 85.00%			
Industry Debt Rate	5.25% 15.00%	0.79%		
Tax-Adjusted Weighted	Tax-Adjusted Weighted Average Cost of Capital 19.99			

GUIDELINE COMPA	NY INFORM	NATION SUM	MARY
Company Name	Tax Rate	Relative Financial Strength	Beta
Alcoa Inc.	27.01%	1.00 (B+)	1.45
Allegheny Techn.	30.07%	0.89 (B++)	1.55
BHP Billiton Ltd. ADR	23.39%	0.78 (A)	1.40
Freep't-McMoRan C&G	35.05%	0.67 (A+)	1.65
Teck Resources Ltd. 'B'	31.97%	0.89 (B++)	1.90
Uranium Energy Corp	NMF		1.70
Uranium Resources Inc	NMF	1.11 (B)	2.25
Selected	38.25%	0.89	1.70

CAPM: RULE 62 CO	MPLIANT
Item	Rate
Market Risk Premium	6.62%
x Industry Beta	1.70
Industry Risk Premium	11.25%
Add: Risk-Free Rate	2.57%
Indicated Rate	13.82%

CAPM: FULL N	YSE
Item	Rate
Market Risk Premium	6.41%
x Industry Beta	1.70
Industry Risk Premium	10.90%
Add: Risk-Free Rate	2.57%
Indicated Rate	13.47%

CAPM: SUPPLY SIDE		
Item	Rate	
Market Risk Premium	6.14%	
x Industry Beta	1.70	
Industry Risk Premium	10.44%	
Add: Risk-Free Rate	2.57%	
Indicated Rate	13.01%	

CAPM: DECILES 1	& 2
Item	Rate
Market Risk Premium	5.89%
x Industry Beta	1.70
Industry Risk Premium	10.01%
Add: Risk-Free Rate	2.57%
Indicated Rate	12.58%

DIVISION'S RISK PREMIUM					
Item	Rate				
Market Risk Premium	6.62%				
x Industry Financial Strength	0.89				
Industry Risk Premium	5.89%				
Add: Risk-Free Rate	2.57%				
Indicated Rate	8.46%				



Indicated Rate

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URANIUM MINING -- DIVIDEND GROWTH MODELS

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16.46%

DIVIDEND GROWTH MODEL: EARNINGS AND DIVIDEND GROWTH						
Company Name	Recent Stock Price	Next Year's Dividend	Projected Earnings Growth	Projected Dividend Growth	Market Growth Rate	D.G.M. Rate
Alcoa Inc.	\$8.63	\$0.14	-	-	-	-
Allegheny Techn.	\$47.94	\$0.72	22.00%	3.50%	12.75%	14.25%
BHP Billiton Ltd. ADR	\$70.30	\$2.20	17.00%	13.50%	15.25%	18.38%
Freep't-McMoRan C&G	\$36.54	\$1.08	12.50%	19.50%	16.00%	18.96%
Teck Resources Ltd. 'B'	\$35.21	\$0.80	7.50%	16.50%	12.00%	14.27%
Uranium Energy Corp	\$2.97	-	-	-	_	-
Uranium Resources Inc	\$0.74	-	-	-	-	-

DIVIDEND GROWTH MODEL: PLOWBACK RATIO						
Company Name	Recent Stock Price	Next Year's Dividend	Return on Equity	Retention Rate	Market Growth Rate	D.G.M. Rate
Alcoa Inc.	\$8.63	\$0.14	8.50%	86.00%	7.31%	8.93%
Allegheny Techn.	\$47.94	\$0.72	13.00%	88.00%	11.44%	12.94%
BHP Billiton Ltd. ADR	\$70.30	\$2.20	41.70%	70.00%	29.19%	32.32%
Freep't-McMoRan C&G	\$36.54	\$1.08	37.00%	77.50%	28.68%	31.63%
Teck Resources Ltd. 'B'	\$35.21	\$0.80	15.00%	79.10%	11.87%	14.14%
Uranium Energy Corp	\$2.97	-	-	-	-	-
Uranium Resources Inc	\$0.74	-	-	-	-	-
Indicated Rate					I	19.99%

COMMENTS ABOUT THE URANIUM MINING INDUSTRY



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URANIUM MINING -- CAPITAL STRUCTURE

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CALCULATION OF CAPITAL STRUCTURE									
Company Name	Long- Term Debt	Long- Term Interest	Implied Coupon Rate	Market Value of Debt*	Pref'd Divs	MV of Pref Eqty**	Recent Stock Price	Shares Outstd	Market Value of Equity
Alcoa Inc.	8,773.0	450.0	2.56%	8,642.9	2.0	30.3	8.63	1,022.0	8,819.9
Allegheny Techn.	1,496.5	62.0	2.07%	1,292.9	-	-	47.94	98.5	4,722.1
BHP Billiton Ltd. ADR	12,388.0	900.0	3.63%	15,456.3	-	-	70.30	2,675.0	188,052.5
Freep't-McMoRan C&G	3,537.0	220.0	3.11%	3,958.7	-	-	36.54	945.0	34,530.3
Teck Resources Ltd. 'B'	4,700.0	280.0	2.98%	5,108.7	-	-	35.21	590.6	20,795.0
Uranium Energy Corp	-	-	-	-	-	-	2.97	73.4	218.0
Uranium Resources Inc	-	-	-	-	-		0.74	92.4	68.4
Total				34,459.5		30.3			257,206.2

Company Name	Percent Debt & Preferred Equity	Percent Common Equity
Alcoa Inc.	49.58%	50.42%
Allegheny Techn.	21.49%	78.51%
BHP Billiton Ltd. ADR	7.59%	92.41%
Freep't-McMoRan C&G	10.29%	89.71%
Teck Resources Ltd. 'B'	19.72%	80.28%
Uranium Energy Corp	-	100.00%
Uranium Resources Inc		100.00%
Mean	21.74%	84.47%
Weighted Mean	11.82%	88.18%

* Market Value of Debt: 5.25%	(Corporate Baa)

REMARKS

^{**} Market Value of Pref. Equity: 6.59% (Baa)